

TELEVISION RECEIVER

Instruction Manual

JCPenney



JCPENNEY COLOR TV RECEIVER

Owner's Instruction Manual

INTRODUCTION

Your new JCPenney Color TV receiver is a quality home entertainment electronic instrument which has been carefully designed and built to give you many hours of enjoyable television viewing.

The information in this manual will help you tune and adjust your new Color TV receiver to produce the clearest picture possible in your reception area. Also included is information which tells you how to select the best operating location within your home and how to properly care for your new Color TV receiver. A special section in this manual outlines specific procedures you can perform if you have difficulty tuning your receiver or if the picture display is abnormal.

We suggest that you carefully read this manual before operating your new Color TV receiver. The few minutes it will take you to read it will help assure that you receive the most enjoyment from your new JCPenney Color TV receiver.

IMPORTANT — Record in the space below the Model number and Serial number, which are located on the back of your T.V. Retain for future reference.

Model Number _____ Serial Number _____

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CHECK HERE BEFORE CALLING FOR SERVICE	16.

Note: Never remove the back cover of the set as this can expose you to very high voltage and other hazards. If the set does not operate properly, unplug the set and call your dealer or service shop.

NOTE:

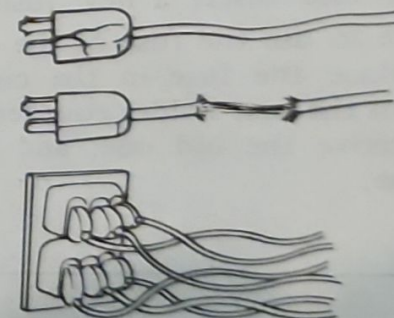
- This television set is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

- When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.

- Do not overload wall outlets and extension cords as this can result in fire or electric shock.



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INSTALLATION

ANTENNA

Unless your TV is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for the best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, the indoor antenna may be sufficient.



LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. To avoid deformation, color change and breakdown of the set, do not leave the set at a place where temperature rises high. For example, in a car with direct sunlight or near a heating apparatus, etc.

VIEWING

This color receiver may be viewed from any desired distance. Most viewers prefer a distance of three to six feet or more, depending on screen size, for maximum eye comfort.



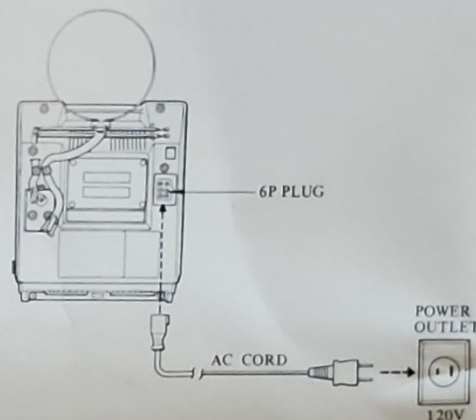
POWER SOURCE

This set operates on 120 volts, 60 Hz AC or 12 volts DC; two kinds of power source. (AC line cord and cigarette lighter connector are provided.)

TO USE AC POWER SOURCE

Use the AC line cord provided for operation on 120 volts AC. Insert the AC line cord into the 6P plug at the back of the receiver and insert the AC line cord plug into a 120 volts, 60 Hz outlet.

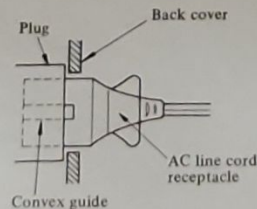
NOTE: NEVER CONNECT THE AC LINE CORD PLUG TO OTHER THAN THE SPECIFIED VOLTAGE OR TO DIRECT CURRENT. USE THE ATTACHED POWER CORD ONLY.



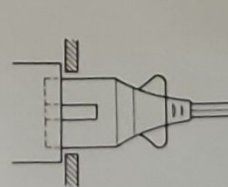
CAUTION:

When inserting the AC line cord receptacle into the plug at the back of the receiver, imperfect insertion could cause possibly trouble. Please insert the receptacle fully into the plug as illustrated below (example: "GOOD"). The convex guide should not be exposed from the back cover's surface.

"GOOD"



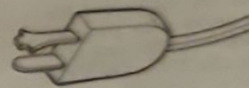
"NO GOOD"



Note: Never remove the back cover of the set as this can expose you to very high voltage and other hazards. If the set does not operate properly, unplug the set and call your dealer or service shop.

NOTE:

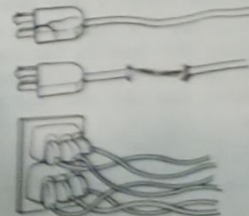
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POV

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Use th
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60 Hz

NOTE:
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CAUTION

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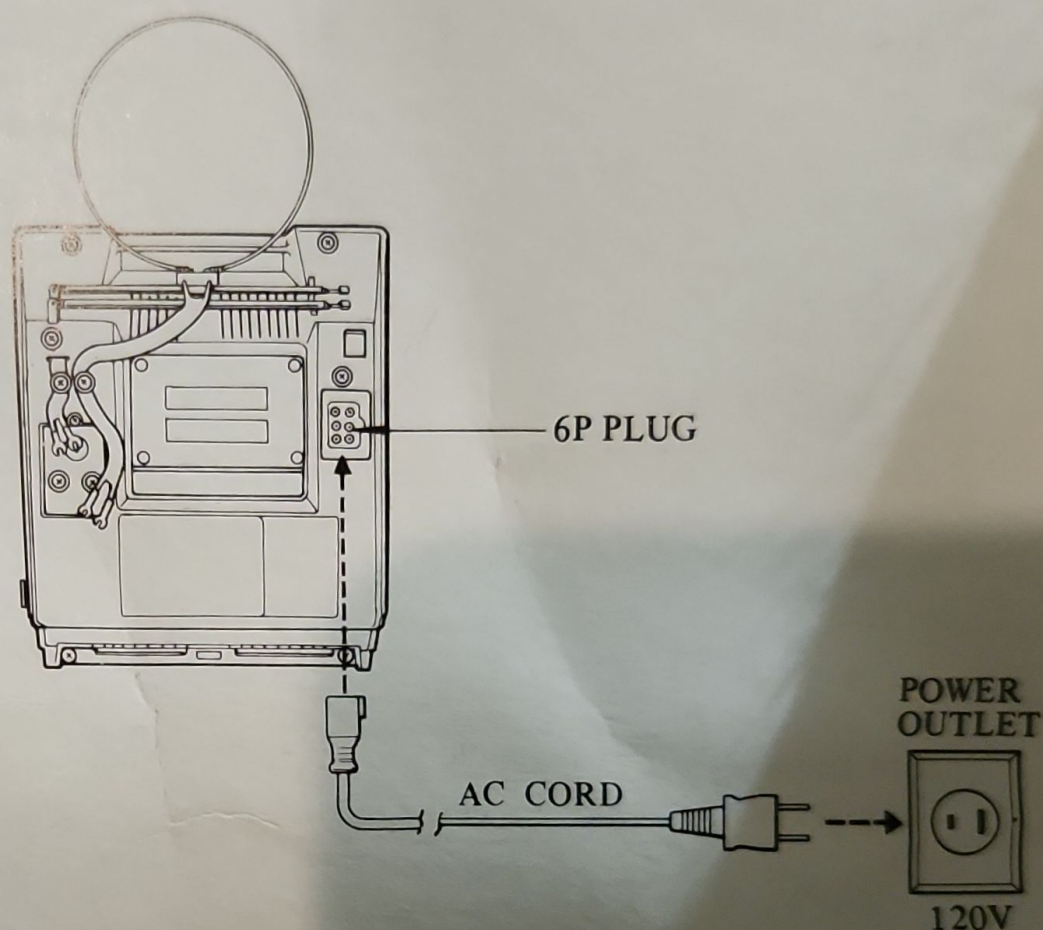
POWER SOURCE

This set operates on 120 volts, 60 Hz AC or 12 volts DC; two kinds of power source. (AC line cord and cigarette lighter connector are provided.)

TO USE AC POWER SOURCE

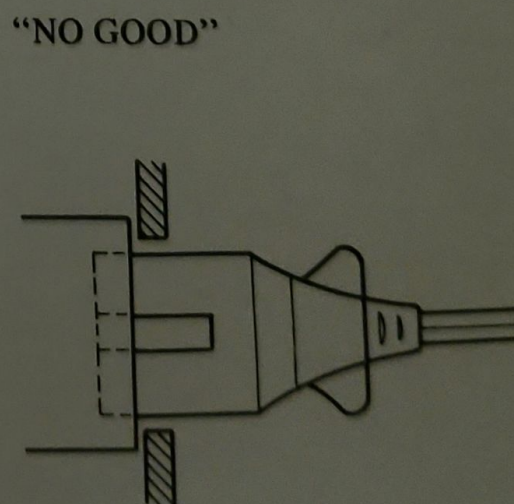
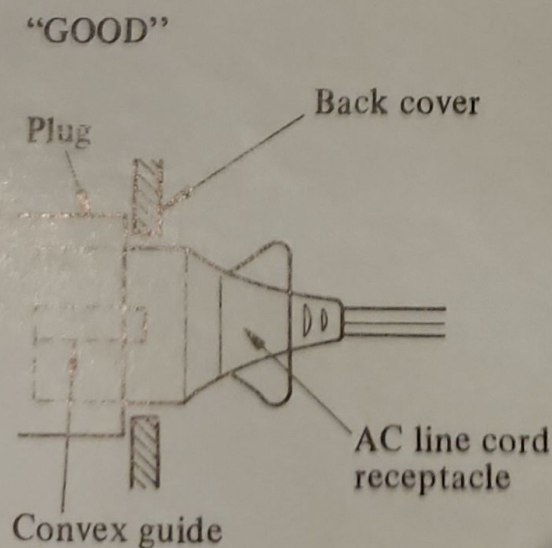
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(AC

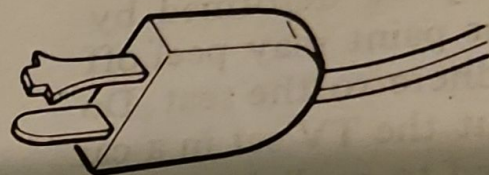
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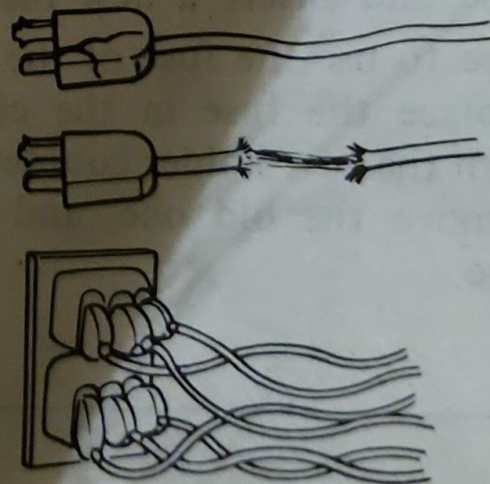


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POWER SOURCE

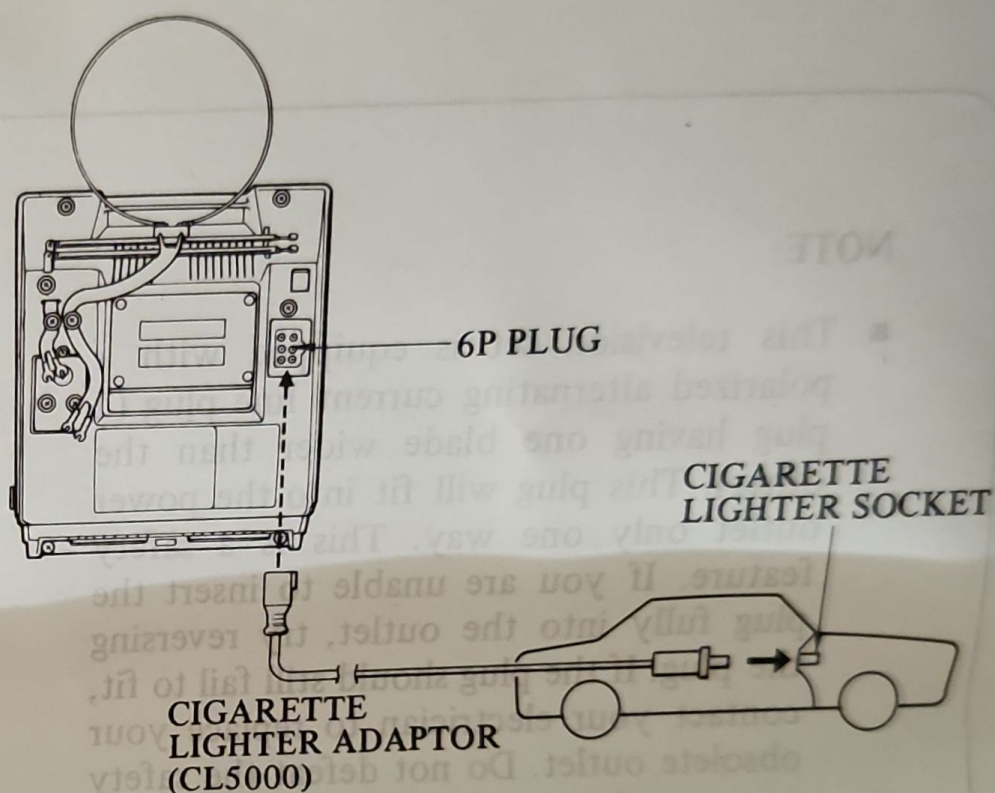
TO USE DC POWER SOURCE

Car battery operation

This receiver can be operated in an automobile having a 12-volt negative ground battery when used with the 12 volt cigarette lighter adaptor. Connect the receptacle of the adaptor to the 6P plug on the back side of the set, and plug the other end of the adaptor into the cigarette lighter socket in your car.

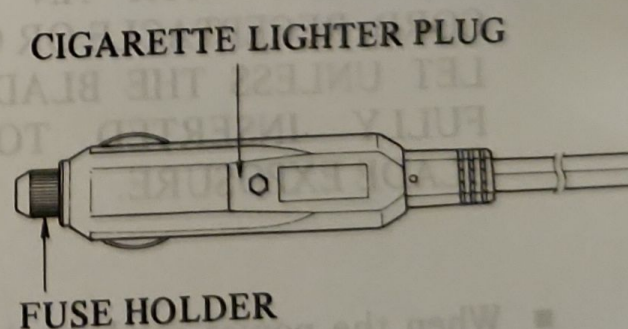
Caution during use in a car:

When the TV set is left inside a parked car in direct summer sunlight with the windows closed, the cabinet may be deformed by heat or paint may peel off and adhere to the seat. Do not put the TV set in a car exposed to sunlight.



Replacement of the Fuse in the cigarette lighter plug:

If the fuse in the fuse holder blows, remove the fuse and insert a new fuse (7A capacity). Be sure to use the fuse of the correct capacity. To replace the fuse in the cigarette lighter plug, turn the fuse holder counterclockwise, and then remove the old one, and replace with a new one.



- NOTE *
- * Be sure that the battery allows a discharge above seven amperes.
 - * The line of "white" on the DC car cord with cigarette lighter adaptor indicates the negative "ground" side.

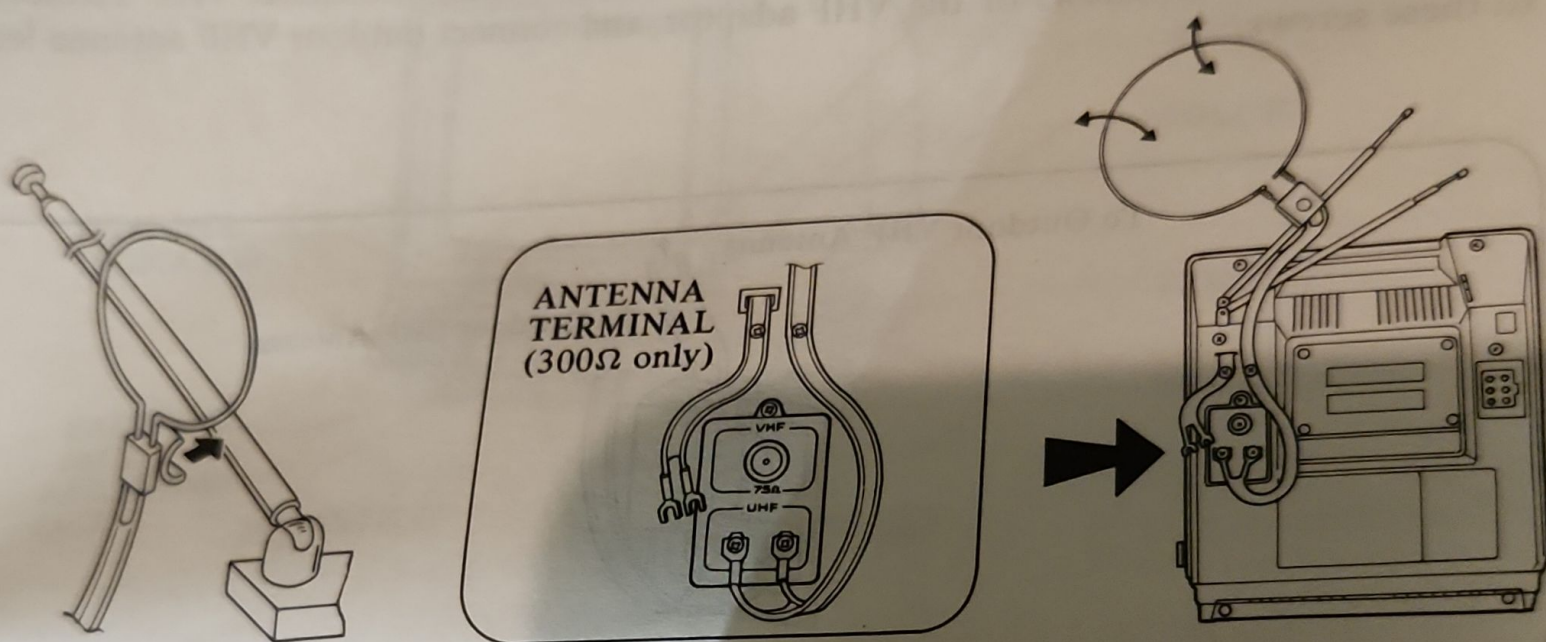
ANTENNA CONNECTIONS

Indoor antenna

This television set is equipped with VHF and UHF antennas. To obtain the best possible picture, use them as follows.

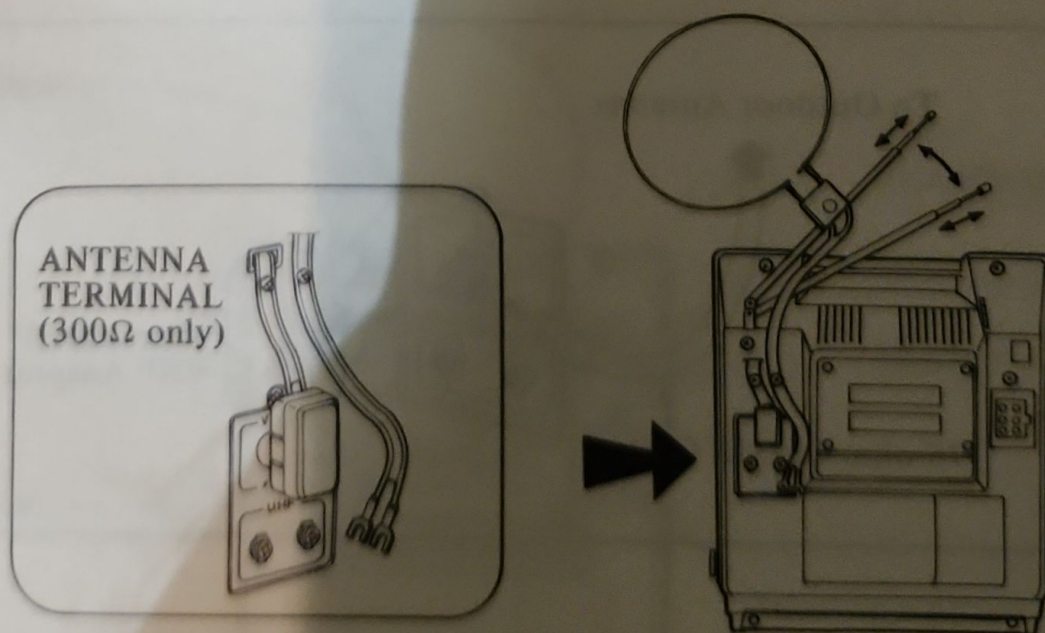
UHF Loop Antenna

The UHF Loop Antenna is designed to be attached to VHF Telescopic Antenna. Connect UHF Loop Antenna leads to the UHF screws of the Antenna terminal. And adjust direction and angle of UHF Loop Antenna for the clearest picture.



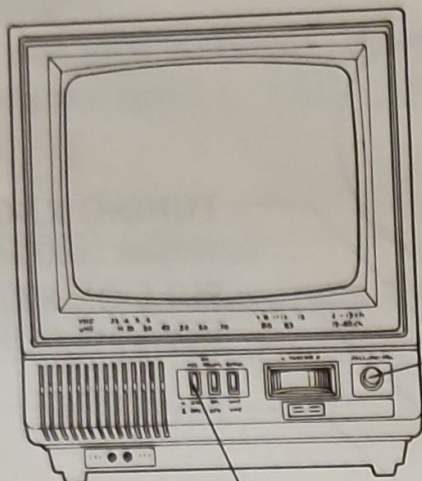
VHF Telescopic Antenna

Connect VHF Antenna leads to the screws of the VHF adaptor (packed in an envelope) and attach it to the VHF 75 ohm receptacle of the Antenna terminal. Extend the VHF Telescopic Antenna and adjust its length direction and angle for the clearest picture.



OPERATION

TURN THE POWER ON AND ADJUST VOLUME

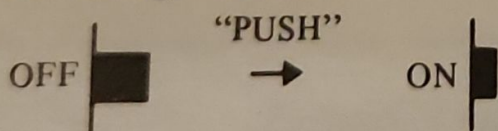


ADJUST AFC SWITCH

AUTOMATIC FREQUENCY CONTROL (AFC)

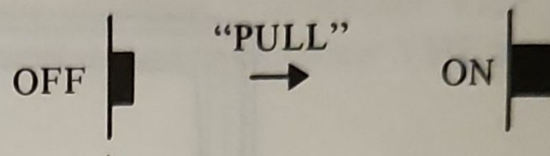
Your TV is equipped with Automatic Frequency control (AFC) to prevent channel "drifting" and to simplify the tuning adjustment on both VHF and UHF channels. To switch AFC "on" or "off", push the AFC switch to the "on" or the "off" position. Normally this switch should be at the "on" position.

NOTE: In case of extreme interference, or an extremely weak station, it may be desirable to operate the TV with the AFC switch disengaged. Disengage the AFC switch and fine tune the picture until it is bright and clear.

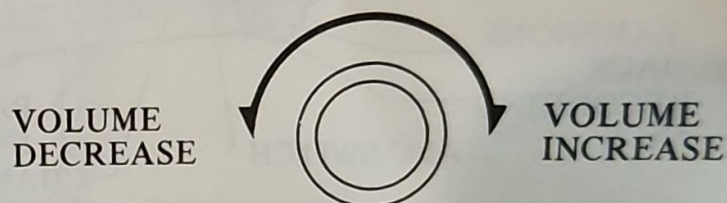


PULL-ON SWITCH & VOLUME CONTROL

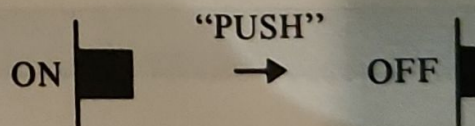
To turn your receiver on, gently pull outward on the pull-on switch & volume control.



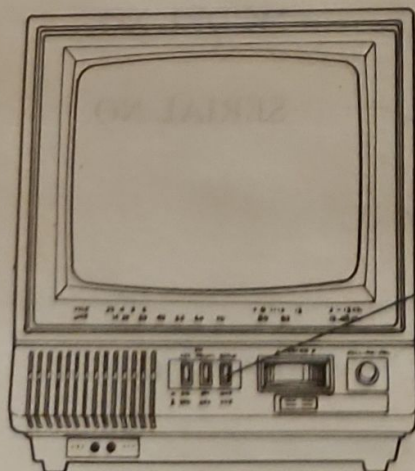
Rotate this knob to the desired volume level. To increase volume turn this knob to the right.



Push the knob in to turn the receiver off.

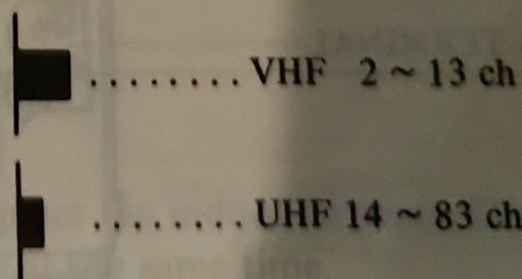


REQUIRED BAND SELECTION

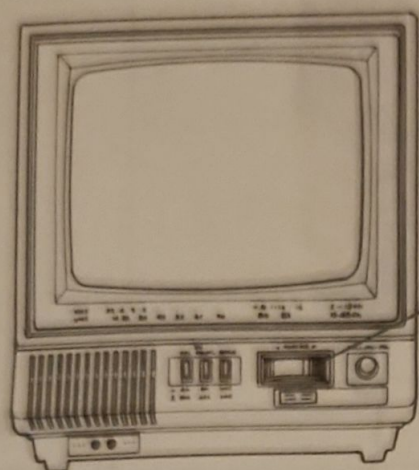


BAND SELECTOR

To select the required band, push the band selector switch depending on the channel you want.



CHANNEL TUNING PROCEDURE

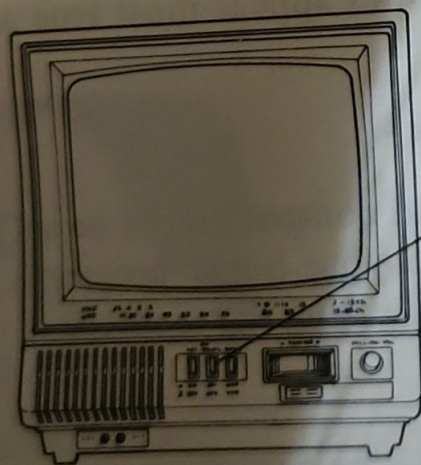


Tune to the required channel by rotating this tuning knob to the right or to the left through following these steps;

1. Disengage the AFC switch.
2. Rotate the tuning knob to the right or to the left until the colored line stops at the required channel in the channel indicator.
3. Fine-tune until the sharpest picture is obtained.
4. Finally push the AFC switch to the "on" position.

A line appears on the screen during tuning. The channel selected is indicated by the position of this line.

WHEN YOU WANT TO KNOW THE CHANNEL YOU ARE WATCHING



CHANNEL RECALL BUTTON

When you want to know the channel you are watching, press this button. A line appears on the screen to indicate the channel you are receiving.

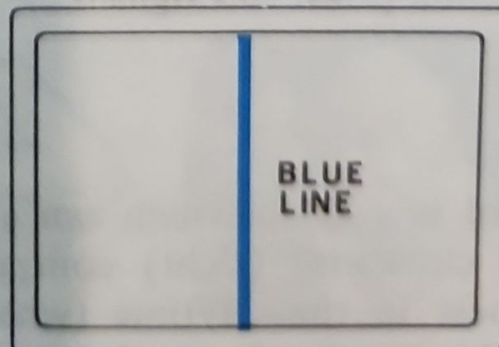
VHF

When you are receiving
channel 2 ~ 13

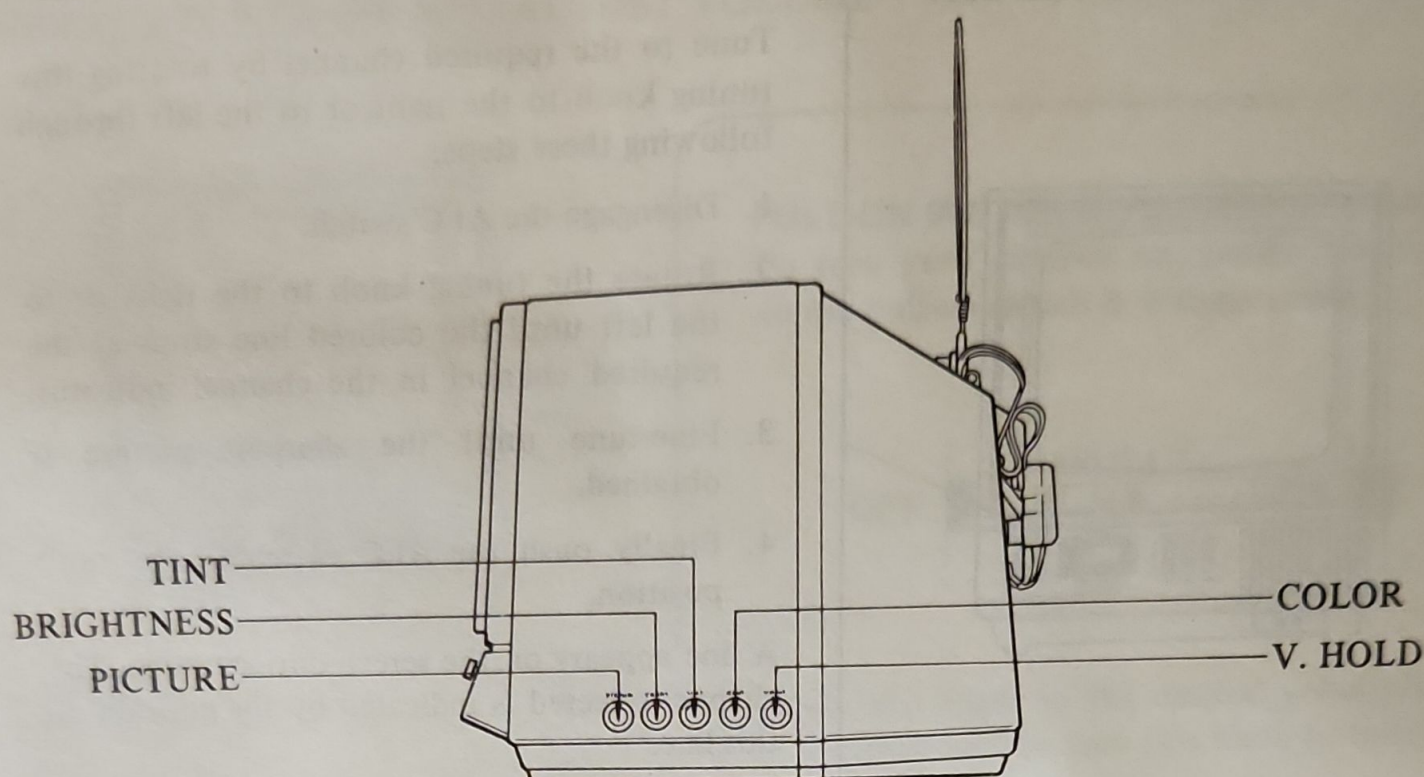


UHF

When you are receiving
channel 14 ~ 83



OPERATION



TINT

The Tint Control determines how faithfully the colors in the transmitted signal are reproduced by the receiver. Adjusting the Tint Control for natural facial tone is the best method of obtaining true color reproduction of the entire picture. At one end of its adjustment range fleshtones will be tinted purple and at the other end they will be green. With the Tint Control set at the point where fleshtones appear most true and natural, all other colors will be correct.

COLOR

The Color Control sets the intensity of the colors. This control should be set to where the colors appear normal in intensity and brilliance to you. Some programs may not be transmitted in color, if so, you cannot add color by adjusting this control.

BRIGHTNESS

When the Brightness Control knob is turned clockwise (right), the darker portions of the picture are lightened.

Note: The Brightness knob has a center click setting. Normally, this knob can be turned to the click-point setting.

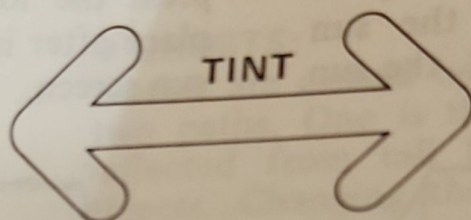
PICTURE

Picture Control is a knob which can adjust contrast, brightness and color all at once. When turned clockwise (right) contrast becomes greater and color deeper. Pictures become sharpest in the daytime (when surroundings are brighter) by increasing the contrast. In the evening hours (when surroundings are darker) the sharpest picture is obtained by reducing the contrast.

Adjust for the
best color picture



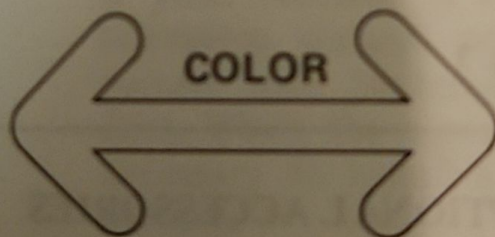
Too purple



Too green



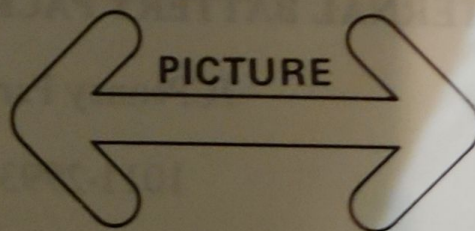
Too little color



Too much color



Daytime



Night

OPERATION(continued)

VERTICAL HOLD

If the picture is moving up or down ("rolling"), adjust the Vertical Hold control until the picture stops rolling. Then center the control in the middle of the holding range.

EARPHONE & RECORDING JACKS

Inserting the earphone into the left jack will silence the speaker in the TV and allow personal viewing without disturbing others. You can also utilize the right jack for tape recording TV sound with the speaker operating.



HOW TO REMOVE THE SUN SCREEN—

Hold the lower corners of the sun screen with fingers and pull outward gently to detach the lower portion of the sun screen. Then by pulling forward, the sun screen is released.

NOTE; When attaching the sun screen, press the lower part slightly to lock in place after inserting the upper part of the sun screen.

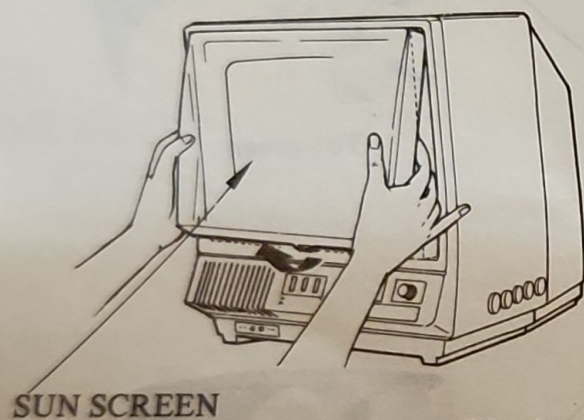


Fig. 1

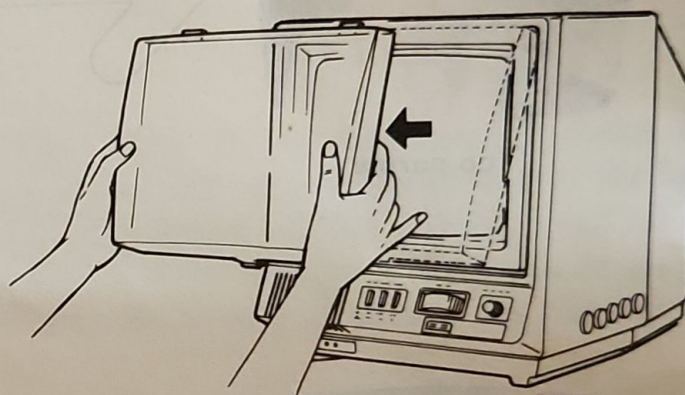


Fig. 2

OPTIONAL ACCESSORIES

The accessories listed below are available from most large JCPenney Stores or JCPenney Catalog. You may also use the enclosed order card and have the accessories shipped directly to your home. The accessories can be shipped COD or placed on your JCPenney, Visa, or Master Card charge account.

EXTERNAL BATTERY PACK

Retail #	Catalog #	JCPenney Part #	Retail
688-2786	858-3817	1011-2993	\$67.95

RECEPTION PROBLEMS(external to the TV)

The most common type of television disturbances are as follows:



• IGNITION NOISE:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition system, neon lamps, electrical drills and other electrical appliances.



• GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve the reception. Ghosting may also be caused by defects in the antenna system; such as unshielded lead-in or connecting several T.V. receivers to the same antenna without using multiple set antenna couplers.



• SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



• RADIO FREQUENCY INTERFERENCE:

This interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

CHECK HERE BEFORE CALLING FOR SERVICE

SYMPTOMS

-No picture, no sound

- Sound OK, poor picture

-Picture OK, poor sound

-Picture blurred

Lines or streaks in picture

-Poor reception on some channels

-Picture rolls vertically

- No color

-Poor color

CHECK THESE ITEMS AND TRY THESE ADJUSTMENTS

Be sure power cord is plugged in.

Be sure TV is switched "ON"

Try another channel (station trouble)

Check antenna connections(back of TV)

Check antenna for broken lead-in wire

Check outside antenna

Check for local interference

Adjust Fine Tuning
(check AFC switch)

Adjust Vertical Hold control

Adjust Picture control

Adjust Brightness control

Adjust Color control

Adjust Tint control

Adjust Volume control

Adjust indoor antenna

MEMO

SERVICE

Please contact the nearest RCA factory service center if the need for service should ever become necessary. Consult the customer information packet included with your merchandise or the telephone directory white pages under RCA Service Co. for the nearest RCA Factory Service Center in your area. If an RCA Service Center is not located in your area, please contact the nearest JCPenney Store.

Distributed by JCPenney Company Inc., New York, N.Y. 10019

PLACE
STAMP
HERE

JCPenney

Parts Distribution Center 9496-1
6840 Barton Road
Morrow, GA 30260

Order Replacement Parts - By Mail

SHIP TO:

First Name

Middle Initial

Last Name

Street Address

City

State

Zip Code

Telephone Number

() -

Check One

☐

JCP Acct. No.

☐

COD

☐

Visa

Expiration Date
/ /

☐

Master Card

MC Interbank #

Expiration Date
/ /

Fill in as complete as possible

Product Name: _____ Model No.: _____

Part Description: _____ Part No.: _____ Qty.: _____

Part Description: _____ Part No.: _____ Qty.: _____

Comments: _____

Customer Signature _____

Date: _____

JCPenney

LIMITED ADDITIONAL TWENTY ONE MONTH WARRANTY ON PICTURE TUBES

After the first ninety days from date of purchase, we will, for the following twenty one months, provide, a replacement (rebuilt) color picture tube, without charge, for this JCPenney Color Television if defective in material or workmanship. Labor of installation is not included. Just return it to the nearest RCA Factory Service Center for prompt service.

SERVICE INFORMATION FOR CATALOG CUSTOMERS

For Color Televisions purchased thru the Catalog, should service be needed during the warranty period contact an RCA Factory Service Center or JCPenney Catalog Department. If RCA Authorized Service is not available in your area, have any reputable serviceman do the repair. Send the receipted repair bill itemized as to parts and labor to the Catalog Distribution Center listed in the Catalog for your state, Attention: Customer Service Department, or bring the bill to any JCPenney Catalog Department, and we will reimburse you for the repair costs.

These warranties give you specific legal rights, and you may also have other rights which vary from state to state.

JCPenney Co., Inc., Product Service Department, Warranty Division, 1301 Avenue of the Americas, New York, New York 10019.

JCPenney

FULL NINETY DAY WARRANTY

Within ten days of purchase, we will repair or, at our option, will replace this JCPenney Color Television if it is defective in material or workmanship. Parts and labor are included. Just return it to a JCPenney store with the original packing, carton, and accessories.

For the balance of the 90 day warranty period we will repair this JCPenney Color Television if defective in material or workmanship. Parts and labor are included. Just return it to an RCA Factory Service Center for service. If an RCA Factory Service Center is not available in your area, contact a JCPenney store.

LIMITED ADDITIONAL NINE MONTH PARTS WARRANTY

After the first ninety days from date of purchase, we will, for the following nine months, provide replacement parts, without charge, for this JCPenney Color Television if defective in material or workmanship. Labor of installation is not included. Just return it to the nearest RCA Factory Service Center for prompt service.

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR TELEVISION

Only the most careful attention has been devoted to quality standards in the manufacture of your new television set. Safety is a major factor in the design of every instrument. But, safety is *YOUR* responsibility too.

This folder lists many helpful tips that will enable you to take fullest advantage of your new instrument. Please read it carefully and retain for later use.

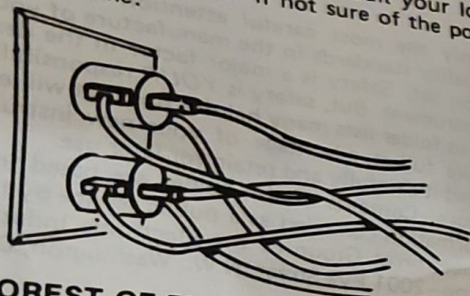
Note: Contents of this folder are based in part on information compiled as a public service by the Consumer Electronics Group of the Electronic Industries Association—2001 Eye Street, N.W., Washington, D.C. 20006.

INSTALLATION

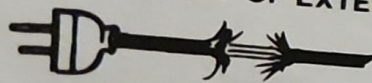
1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other). This safety feature allows the plug to fit into the power outlet only one way. Do not defeat its purpose. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.



2 Operate your TV set only from a power source as indicated on the set or refer to the Operating Instructions for this information. Consult your local power company or TV dealer if not sure of the power supply to your home.



FOREST OF EXTENSIONS—HAZARD



FRAYED OR TAUT A.C. LINE



CRACKED PLUG

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords, damaged or cracked wire insulation and broken plugs. They may result in a shock or fire hazard. Periodically examine the cord and have it replaced by your service technician if appearance indicates damage or deteriorated insulation.

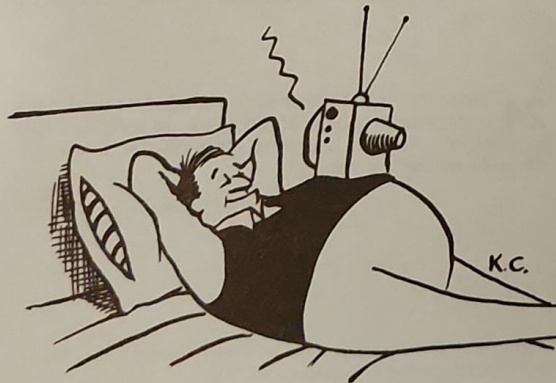
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.



POOR VENTILATION

5 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. If these openings are blocked, heat build-up within the TV set can cause failures which may result in a fire hazard. Therefore:

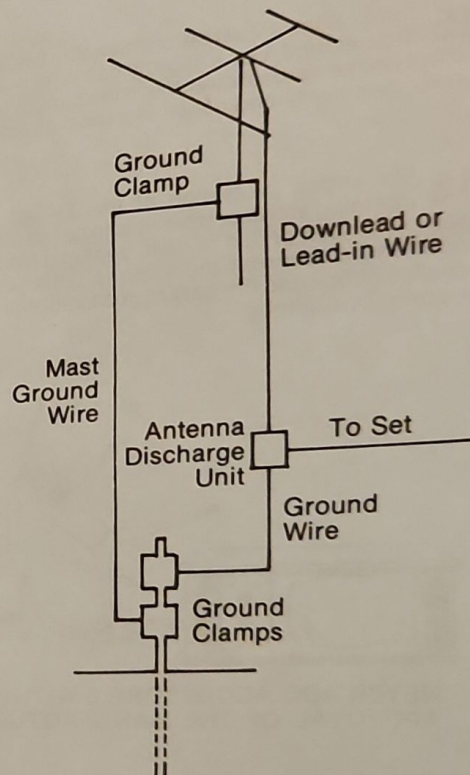
- Never block the bottom ventilation slots of a portable TV set by putting it on a bed, sofa, rug, etc.;
- Never place a TV set in a "built-in" enclosure unless proper ventilation is provided;
- Never cover the openings with cloth or other material;
- Never place the TV set or its power cord near or over radiator, heat register, heat lamp, etc.
- Periodically clean the ventilation slots with the plastic crevice attachment on your vacuum cleaner.



6 Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, NFPA No. 70 1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (See example below.)

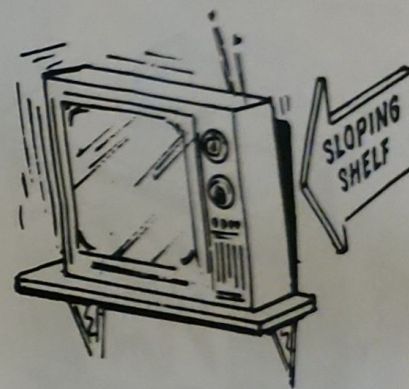


Suitable Grounding Electrode Driven 8 Feet Into The Earth

- Use No. 10 AWG copper or No. 8 AWG aluminum or No. 17 AWG copper-clad steel or bronze wire, or larger as ground wires for both mast and lead-in.
- Secure lead-in wire from antenna to antenna discharge unit and mast ground wires to house with stand-off insulators, spaced from 4 feet (1.22 meters) to 8 feet (1.83 meters) apart.
- Mount antenna discharge unit as close as possible to where lead-in enters house.

7 Wall and shelf mounted installations should use factory approved mounting instructions.

8 Never operate a TV set in a tilted position. It is designed to operate on a flat, horizontal surface.



SLOPING SHELF

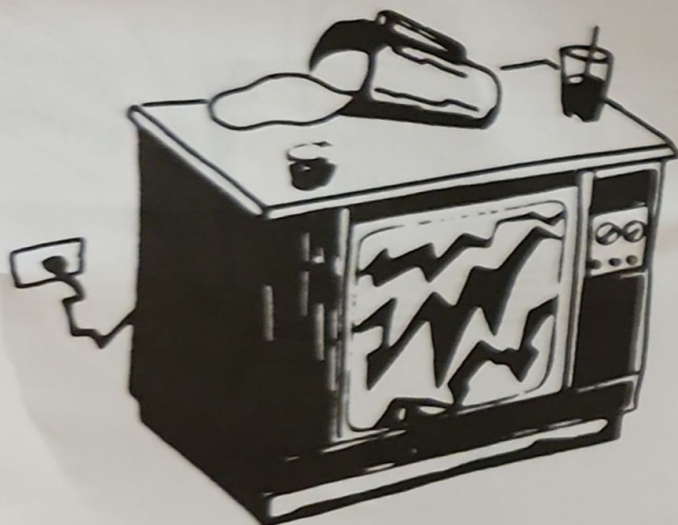
- 9** To avoid personal injury:
- Do not place a TV set on a sloping shelf.
 - Use only a cart or stand recommended for use with the instrument.
 - Do not try to roll a cart with small casters across thresholds or deep pile carpets.

USE

10 Always turn the TV set off if it is necessary to leave the room for more than a short period of time. Never leave it on when leaving the house. A possible malfunction may result in a fire hazard.

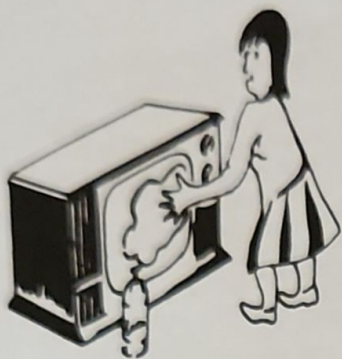
11 Caution children about dropping or pushing objects into the cabinet openings. Some internal parts carry hazardous voltages and contact can result in electrical shock. Objects dropped into a TV set may also result in a fire hazard. Be careful not to spill liquids into set.

12 If snapping or popping from the TV set is continuous or frequent while it is operating, unplug the TV set and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



13 Never expose the TV set to rain or water. If it becomes damp or wet, pull the plug and have it inspected by a service technician before further use. Rain or excessive moisture—even as a result of extended exposure on a back porch—may cause electrical shorts which can result in fire or shock hazards.

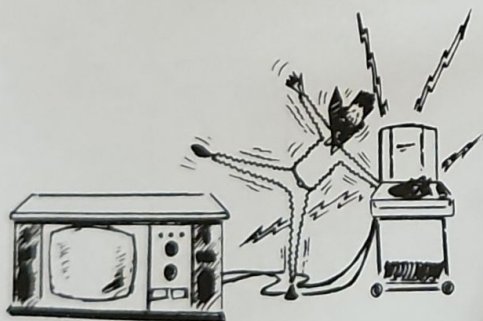
In general, it is good practice to keep your TV set away from all potentially wet areas such as bathtubs, laundry tubs, wet basements, etc.



14 Never operate the TV set if liquid has been spilled into it. Unplug the TV set and have it inspected by a service technician before further use. Spilled liquid inside can cause electrical shorts which can result in fire or shock hazards.

15 Turn off the TV set before cleaning the face of the picture tube. Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the picture tube since it may over spray and cause electrical shock.

16 For added protection of the TV set during a lightning storm or when it is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent possible shock and fire hazard due to lightning storms or power line surges.



NEVER ADD ACCESSORIES WITHOUT APPROVAL OF THE MANUFACTURER

17 Never add accessories to a TV set that have not been designed for this purpose. Such additions may result in a shock hazard.

SERVICE

18 If you are unable to restore normal operation by following the detailed procedure in your Operation Instructions, do not attempt any further adjustments. Unplug the TV set and call your dealer or service technician.

19 A distinct change from normal performance may indicate a need for service. Unplug the TV set and call your dealer or service technician.

20 Removal of the back cover of the TV set or defeat of a power line interlock may expose you to very high voltage and other hazards. Observe all cautionary labels and warnings.

21 If the TV set has been dropped or the cabinet has been damaged, fire or shock hazard may exist. Unplug the TV set and have it checked by a service technician before use.

22 When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of manufacturers specified replacements can prevent fire, shock, or other hazards.

23 Upon completion of any service or repairs to the TV set, please ask the service technician to perform the safety check described in applicable service literature.

24 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR TELEVISION

Only the most careful attention has been devoted to quality standards in the manufacture of your new television set. Safety is a major factor in the design of every instrument. But, safety is *YOUR* responsibility too. This folder lists many helpful tips that will enable you to take fullest advantage of your new instrument. Please read it carefully and retain for later use.
Note: Contents of this folder are based in part on information compiled as a public service by the Consumer Electronics Group of the Electronic Industries Association—2001 Eye Street, N.W., Washington, D.C. 20006.



IMPORTANT PRODUCT SERVICE INFORMATION

JCPenney would like to thank you for purchasing your new television from us. It's a privilege to have you as a customer, and we know you'll enjoy your television for many years to come.

If there are any questions regarding the operation of your new television, or if you need to have it serviced, you may use the enclosed directory to locate your nearest RCA Service facility. You may also contact your nearest JCPenney Store or write to:

JCPenney Inc.
Product Service
1301 Avenue of the Americas
New York, NY 10019

In the event that parts are ever needed for your television, you may order them from any JCPenney Retail Store, or direct from our Parts Distribution Center listed below:

JCPenney Inc.
Regional Parts Center
6840 Barton Road
Morrow, GA 30260
ATTN: Customer Parts Section

When ordering parts, please be sure to include the model and Product Service Number of your television and the part number or description of the part needed. Please include your JCPenney, Visa, or Master Card charge account number if you would like to charge your parts purchase.

RCA Factory Service Centers

ALABAMA

RCA Factory Service Center #1753
321 Snow Drive
Birmingham, AL 35209
205-945-8040

RCA Factory Service Center #1761
55 Midtown Pk. E.
Mobile, AL 36686
205-478-8405

RCA Factory Service Center #1766
101 Sandhill Road S.
Montgomery, AL 36117
205-277-9440

ARIZONA

RCA Factory Service Center #1868
4415 S. 32nd Street
Phoenix, AZ 85040
602-943-3011/3016

RCA Factory Service Center #1888
810 E. 47th Street
Suite #105
Tucson, AZ 85712
602-881-8869

ARKANSAS

RCA Factory Service Center #1867
6020 Scott Hamilton Drive
Little Rock, AR 72209
501-665-1505

CALIFORNIA

RCA Factory Service Center #1883
24th & D Street
Bakersfield, CA 93301
805-325-7227/8068

RCA Factory Service Center #1886
230 Harrison Avenue
Campbell, CA 95009
408-374-0350

RCA Factory Service Center #1887
6724 Remmet Avenue
Canoga Park, CA 91304
213-341-7460/7467

Ventura/Oxnard
RCA Factory Service #1880
8724 Remmet Avenue
Canoga Park, 91304
(Toll Free) 805-659-3248

RCA Factory Service Center #1882
456 N. Broadway
Fresno, CA 93701
209-266-8175

RCA Factory Service Center #1871
911 N. Orange Drive
Hollywood, CA 90038
213-851-0700

RCA Factory Service Center #1895
126 W. Maple Avenue
Monrovia, CA 91016
213-357-7951
213-358-4178

RCA Factory Service Center #1896
13804 Shoemaker
Norwalk, CA 90650
213-921-4361

RCA Factory Service Center #1879
8470 Enterprise Way
Oakland, CA 94621
415-635-4600

RCA Factory Service Center #1870
1601 E. Edinger
Santa Ana, CA 92705
714-835-0300

RCA Factory Service Center #1879
2530 E. La Cadena
Riverside, CA 92507
714-686-9650

RCA Factory Service Center #1894
110 Commerce Circle
Sacramento, CA 95815
916-922-8636

RCA Factory Service Center #1895
5240 Clairemont Mesa Blvd.
San Diego, CA 92113
619-279-6100

RCA Factory Service Center #1873
192 Beacon Street
S. San Francisco, CA 94080
415-589-3115
415-761-2888

RCA Factory Service Center #1872
433 Alaska
Torrance, CA 90503
213-635-7151

COLORADO

RCA Factory Service Center #1855
1106 W. 46th Avenue
Denver, CO 80211
303-433-8711

CONNECTICUT

RCA Factory Service Center #1673
Frontage Road
West Haven, CT 06516
203-934-2673

RCA Factory Service Center #1672
562 Main Avenue
Norwalk, CT 06850
203-845-1800

RCA Factory Service Center #1566
270 Brewer Street
E. Hartford, CT 06118
203-246-6501
203-568-5132

DELAWARE

RCA Factory Service Center #1734
79 Christians Road Rt. 273
New Castle, DE 19720
302-322-0192

FLORIDA

RCA Factory Service Center #1711
33rd Street Industrial Park
Fort Lauderdale
FL 33305
305-447-2732

RCA Factory Service Center #1712
1001 Old Okeechobee Road
Fort Lauderdale, FL 33401
305-685-1150

RCA Factory Service Center #1757
8130 Bayberry Road
Jacksonville, FL 32216
904-731-5880

RCA Factory Service Center #1715
295 School Avenue
Sarasota, FL 33577
813-366-8266

RCA Factory Service Center #1714
5771 NE 14th Avenue
Ft. Lauderdale, FL 33334
305-772-1770

RCA Factory Service Center #1754
8601 SW 129th Terrace
Miami, FL 33156
305-233-0470/0426

RCA Factory Service Center #1750
15700 NW 7th Avenue
Miami, FL 33169
305-685-7251

RCA Factory Service Center #1713
16100 66th Street N.
Largo, FL 33541
813-536-3541

GEORGIA

RCA Factory Service Center #1710
6724 White Bluff Road
Savannah, GA 31406
912-352-2135

RCA Factory Service Center #1735
1909 Mountain Ind. Boulevard
Tucker, GA 30084
404-939-7812

RCA Factory Service Center #1245
2132 Jackson Parkway NW
Atlanta, GA 30318
404-799-8531

ILLINOIS

RCA Factory Service Center #1632
1536 Brook Drive
Downers Grove, IL 60515
312-620-6500

RCA Factory Service Center #1816
20 E. University
Arlington Heights, IL 60004
312-259-7300

RCA Factory Service Center #1811
7500 N. Oak Park Avenue
Niles, IL 60648
312-777-9400

RCA Factory Service Center #1825
906 W. Detweiler Drive
Peoria, IL 61615
309-691-7515

RCA Factory Service Center #1812
12636 S. Springfield Avenue
Alsip, IL 60658
312-925-6000

RCA Factory Service Center #1830
3020 Forest View Road
Rockford, IL 61109
815-397-0242

INDIANA

RCA Factory Service Center #1892
1120 Diamond Avenue
Evansville, IN 47711
812-425-3597/4803

RCA Factory Service Center #1805
7425 S. Anthony Boulevard Rt. 10
Ft. Wayne, IN 46816
219-447-3502/7551

RCA Factory Service Center #1824
1624 Lincoln Way East
South Bend, IN 46613
219-272-1512

RCA Factory Service Center #1817
2550 E. 55th Street
Indianapolis, IN 46220
317-251-4521
317-257-6876

RCA Factory Service Center #1820
1961 E. 89th Avenue
Merrillville, IN 46410
219-769-1264

IOWA

9330 Hickman Road
Des Moines, IA 50310
515-274-3632

KANSAS

RCA Factory Service Center #1856
2011 S. Washington
Wichita, KS 67211
316-262-7417

KENTUCKY

RCA Factory Service Center #1846
4333 Poplar Level Road
Louisville, KY 40213
502-454-4613

LOUISIANA

RCA Factory Service Center #1806
373 Park Street
W. Springfield, MA 01109
504-488-8781
504-486-6505

RCA Factory Service Center #1861
923 Executive Park Dr. Ste. 19
Baton Rouge, LA 70806
504-924-1321/1322

RCA Factory Service Center #1808
725 W. 70th Street
Shreveport, LA 71106
318-865-2348

MAINE

RCA Factory Service Center #1699
316 St. John Street
Portland, ME 04102
207-775-2328

MARYLAND

RCA Factory Service Center #1747
1745 E. Joppa Road
Baltimore, MD 21234
301-661-2000

RCA Factory Service Center #1748
5400 Lafayette Pl.
Hyattsville, MD 20781
301-277-3300

RCA Factory Service Center #1764
9020 Red Branch Road
Columbia, MD 21045
301-730-6800

RCA Factory Service Center #1762
118 Derwood Circle
Derwood Industrial Park
Rockville, MD 20850
301-424-7303

MASSACHUSETTS

RCA Factory Service Center #1871
83 Woodrock Road
Weymouth Industrial Park
E. Weymouth, MA 02189
617-337-7200

RCA Factory Service Center #1664
757 Turnpike Street
Route 114 P.O. Box 127
N. Andover, MA 01845
617-395-6610
617-685-3501

RCA Factory Service Center #1664
757 Turnpike Street
Route 114 P.O. Box 127
N. Andover, MA 01845
617-395-6610
617-685-3501

RCA Factory Service Center #1678
17 Tech Circle
Natick, MA 01760
617-655-3400

RCA Factory Service Center #1677
373 Park Street
W. Springfield, MA 01109
504-488-8781
504-486-6505

RCA Factory Service Center #1689
15 Hill Street
Worcester, MA 01605
617-753-6387/2373

MICHIGAN

RCA Factory Service Center #1794
3958 Jackson Road
Ann Arbor, MI 48103
313-761-8370
313-683-0316

RCA Factory Service Center #1789
13233 Hancock Drive
Taylor, MI 48180
313-287-6800

RCA Factory Service Center #1785
2945 Madison Avenue SE
Grand Rapids, MI 49508
616-241-2629/5740

RCA Factory Service Center #1792
4136 Holiday Drive
Flint, MI 48907
313-232-9167/2703

RCA Factory Service Center #1793
160 E. Morley Drive
Saginaw, MI 48601
517-755-0467/0468

RCA Factory Service Center #1787
4895 Highland Road
Pontiac, MI 48054
313-335-6118
313-674-2266

RCA Factory Service Center #1795
32101 Townley
Madison Heights, MI 48071
313-566-3880

RCA Factory Service Center #1788
13040 Nine Mile Road
E. Detroit, MI 48021
313-778-1200

RCA Factory Service Center #1777
11805 Mayfield
Livonia, MI 48150
313-522-4600

RCA Factory Service Center #1814
633 Hoover Street NE
Minneapolis, MN 55413
612-331-8701

MISSOURI

RCA Factory Service Center #1842
3101 Tarkenton Street
Kansas City, MO 64111
816-753-3050

RCA Factory Service Center #1845
1376 Kingsland Avenue
St. Louis, MO 63133
314-727-9416

RCA Factory Service Center #1890
8100 Watson Road
Bellevue, MO 63119
314-843-4401

NEBRASKA

RCA Factory Service Center #1818
2114 S. 37th Street
Omaha, NE 68105
402-345-9300

NEVADA

RCA Factory Service Center #1897
733 E. Glendale Avenue
Sparks, NV 89431
702-356-1150

RCA Factory Service Center #1869
3185 S. Highland Drive
Las Vegas, NV 89109
702-735-6144/6146

NEW JERSEY

RCA Factory Service Center #1716
520 Thomas Boulevard
Orange, NJ 07050
201-676-6000

RCA Factory Service Center #1740
119 S. Shore Road US Rt. 9
Marmora, NJ 08223
609-641-7320
609-399-4366

RCA Factory Service Center #1717
2520 Randolph Avenue
Avenel, NJ 07001
201-388-6000/6016

RCA Factory Service Center #1723
285 Midland Avenue
Saddle Brook, NJ 07662
201-794-3220

RCA Factory Service Center #1680
5420 32nd Street
Manassas, NY 11378
212-384-1000

RCA Factory Service Center #1731
275 Chelsea Boulevard
Gloucester City, NJ 08035
609-466-7500

RCA Factory Service Center #1718
38 Commerce Way
Hawthorne, NJ 07002
201-383-3999

RCA Factory Service Center #1729
Rt. 46
Denville, NJ 07834
201-427-8120/8128

RCA Factory Service Center #1725
1675 Highway 36
Rahway, NJ 07065
201-988-4886

RCA Factory Service Center #1726
Jefferson Road & White Horse Pike
Sewell, NJ 08059
609-757-9595
609-755-2289

RCA Factory Service Center #1719
121 Lawrence Road
Trenton, NJ 08628
609-882-9500

NEW MEXICO

RCA Factory Service Center #1898
2705A Park Avenue
Albuquerque, NM 87107
505-345-5462

NEW YORK

RCA Factory Service Center #1885
4420 Flanagan Road
Brooklyn, NY 11203
212-659-8900/8958

RCA Factory Service Center #1663
6288 Old Colliery Road
S. Syracuse, NY 13207
315-483-4881/1336

RCA Factory Service Center #1680
5420 32nd Street
Manassas, NY 11378
212-384-1000

RCA Factory Service Center #1683
1150 Clove Avenue
Bronx, NY 10472
212-991-7000/1880

RCA Factory Service Center #1683
410 Saw Mill River Road
Elmsford, NY 10523
914-582-5390

RCA Factory Service Center #1687
132-18 32nd Avenue
Flushing, NY 11354
212-358-8700

RCA Factory Service Center #1661
347 New Karner Road
Albany, NY 12205
518-456-1334/1337

RCA Factory Service Center #1662
1680 Walden Avenue
Buffalo, NY 14225
716-896-6200

RCA Factory Service Center #1667
113 Oakdale Road
Johnson City, NY 13790
607-797-2352/2351

RCA Factory Service Center #1684
145 New Hyde Park Road
Franklin Square, L.I., NY 11010
516-354-0400/2575

RCA Factory Service Center #1665
14 Jet View Drive
Rochester, NY 14624
716-436-1820

RCA Factory Service Center #1696
72 Milber Boulevard
E. Farmingdale, NY 11735
516-293-6440/4069

NORTH CAROLINA

RCA Factory Service Center #1751
3819 S. Tryon Street
Charlotte, NC 28210
704-525-5722

RCA Factory Service Center #1755
5111 W. Market Street
Greensboro, NC 27409
919-292-9771

OHIO

RCA Factory Service Center #1778
20500 Miles Parkway
Warrensville Heights, OH 44128
216-587-5500

RCA Factory Service Center #1774
2521 34th Street, NE, P.O. Box 8
Canton, OH 44705
216-456-7316/7317

RCA Factory Service Center #1803
3896 Oakwood Avenue
Youngstown, OH 44515
216-792-1421

RCA Factory Service Center #1782
1245 Munroe Falls Avenue
Cuyahoga Falls, OH 44221
216-923-4811

RCA Factory Service #1798
4509 W. 160th Street
Cleveland, OH 44135
216-267-8800/8805
8-429-3498

RCA Factory Service Center #1780
50 Elmdale Road
Toledo, OH 43607
419-531-9951

RCA Factory Service Center #1783
1440 King Avenue
Columbus, OH 43212
614-486-0441

RCA Factory Service Center #1776
6045 Winton Road
Cincinnati, OH 45232
513-542-5000

RCA Factory Service Center #1779
2107 Jergens Road
Dayton, OH 45404
513-233-5723

RCA Factory Service Center #1809
1925 N. Ridge Road
Lorain, OH 44055
216-277-1231

OKLAHOMA

RCA Factory Service Center #1851
168 S. 122nd E. Avenue
Tulsa, OK 74128
918-438-4422/4427

RCA Factory Service Center #1849
2009 S. Harvard Avenue
Oklahoma City, OK 73128
405-682-2374

OREGON

RCA Factory Service Center #1878
2645 SE 50th Avenue
Portland, OR 97206
503-233-6611

PENNSYLVANIA

RCA Factory Service Center #1743
979 E. Park Drive
Harrisburg, PA 17111
717-564-2511

RCA Factory Service Center #1786
356 Goucher Street
Johnstown, PA 15905
814-288-1541

RCA Factory Service Center #1800
2104 Babcock Boulevard
Pittsburgh, PA 15209
412-821-3710

RCA Factory Service Center #1781
6080 Library Road Rt. 88
Bethel Park, PA 15102
412-884-5600

RCA Factory Service Center #1739
4557 G Street
Philadelphia, PA 19120
215-533-8100

RCA Factory Service Center #1729
Wilkes Barre Scranton Highway At
Turnpike Exit
Pittston, PA 18641
717-825-3444

RCA Factory Service Center #1742
2587 Industry Lane
W. Norriton Industrial Park
Norristown, PA 19401
215-539-0900

RCA Factory Service Center #1735
5997 Colony Drive
E. Allen Industrial Park
Bethlehem, PA 18017
215-837-9450/9455

RCA Factory Service Center #1732
1230 Macdade Boulevard
Collingdale, PA 19023
215-726-8600
215-583-7100

RCA Factory Service Center #1738
156 Donnerville Road
Mountville, PA 17554
717-285-5971

RCA Factory Service Center #1727
133 Horsham Road
Horsham, PA 19044
215-887-7530

RCA Factory Service Center #1736
2615 Perkiomen Avenue Mt. Penn
Reading, PA 19606
215-779-4660

RCA Factory Service Center #1784
1419 W. 21st Street
Erie, PA 16502
814-452-3661

RCA Factory Service Center #1744
130 East 3rd Street
Williamsport, PA 17701
717-326-3711

RHODE ISLAND

RCA Factory Service Center #1674
855 Waterman Avenue
Waterman Office Park
E. Providence, RI 02914
401-434-0872/9151

SOUTH CAROLINA

RCA Factory Service Center #1763
714 Broad River Road
Columbia, SC 29210
803-772-8326
803-798-7212

RCA Factory Service Center #1765
1540 E. Wade Hampton Boulevard
Greenville, SC 29609
803-232-2364

TENNESSEE

RCA Factory Service Center #1756
314 Philfre Court
Nashville, TN 37217
615-361-8487

RCA Factory Service Center #1760
6508 Baum Drive
Knoxville, TN 37919
615-588-0681

RCA Factory Service Center #1844
2110 Airways Boulevard
Memphis, TN 38114
901-743-3262

RCA Factory Service Center #1752
4121 S. Creek Road
Chattanooga, TN 37408
615-698-2551

TEXAS

RCA Factory Service Center #1859
6018 53 1/2 Street East
Austin, TX 78751
512-452-4539

RCA Factory Service Center #1843
2755 Irving Boulevard
Dallas, TX 75207
214-631-8440
214-638-3533

RCA Factory Service Center #1840
510 Aldine Bender Road
Houston, TX 77060
713-445-8588

RCA Factory Service Center #1856
605 Mariposa Street
Beaumont, TX 77701
713-833-8639

RCA Factory Service Center #1839
13620 Gamma Road
Dallas, TX 75240
214-233-3377

RCA Factory Service Center #1850
5778 NW Loop 410
San Antonio, TX 78238
512-684-5550/5554

RCA Factory Service Center #1845
2515 E. Lancaster
Ft. Worth, TX 76103
817-535-0861

RCA Factory Service Center #1857
6814 Broadway
Galveston, TX 77552
713-744-7101

RCA Factory Service Center #1847
10615 Rockley Road
Houston, TX 77099
713-933-9710/8978

UTAH

RCA Factory Service Center #1874
845 W. 2500 S.
Salt Lake City, UT 84119
801-972-1200

VIRGINIA

RCA Factory Service Center #1745
2813 Dorr Avenue
Fairfax, VA 22031
703-560-6000

RCA Factory Service Center #1758
3408 Azalea Garden Road
Norfolk, VA 23513
804-857-0626/0629

RCA Factory Service Center #1748
2205 Perl Road
Richmond, VA 23230
804-288-7241

WASHINGTON

RCA Factory Service Center #1876
916 N. 143rd Street
Seattle, WA 98133
206-365-2100

RCA Factory Service Center #1884
3611 S. G Street
Tacoma, WA 98408
206-474-0671

WEST VIRGINIA

RCA Factory Service Center #1806
90 N. River Road
Wheeling, WV 26003
304-292-8353

RCA Factory Service Center #1807
608 Rock Lake Drive
S. Charleston, WV 25309
304-768-0051/0351

RCA Factory Service Center #1799
728 Main Street
Follansbee, WV 26037
304-527-0711

WISCONSIN

RCA Factory Service Center #1827
2605 Todd Drive
Madison, WI 53713
608-271-8611

RCA Factory Service Center #1813
3235 N. Taylor Street
Milwaukee, WI 53222
414-781-3011

JCPenney

IMPORTANT PRODUCT SERVICE INFORMATION

JCPenney would like to thank you for purchasing your new television from us. It's a privilege to have you as a customer, and we know you'll enjoy your television for many years to come.

If there are any questions regarding the operation of your new television, or if you need to have it serviced, you may use the enclosed directory to locate your nearest RCA Service facility. You may also contact your nearest JCPenney Store or write to:

JCPenney Inc.
Product Service
1301 Avenue of the Americas
New York, NY 10019

In the event that parts are ever needed for your television, you may order them from any JCPenney Retail Store, or direct from our Parts Distribution Center listed below:

JCPenney Inc.
Regional Parts Center
6840 Barton Road
Morrow, GA 30260
ATTN: Customer Parts Section

When ordering parts, please be sure to include the model and Product Service Number of your television and the part number or description of the part needed. Please include your JCPenney, Visa, or Master Card charge account number if you would like to charge your parts purchase.

JCPenney

FOR SERVICE PERSONNEL ONLY

COLOR TELEVISION DATA

MODEL
685-2064

Service Adjustments

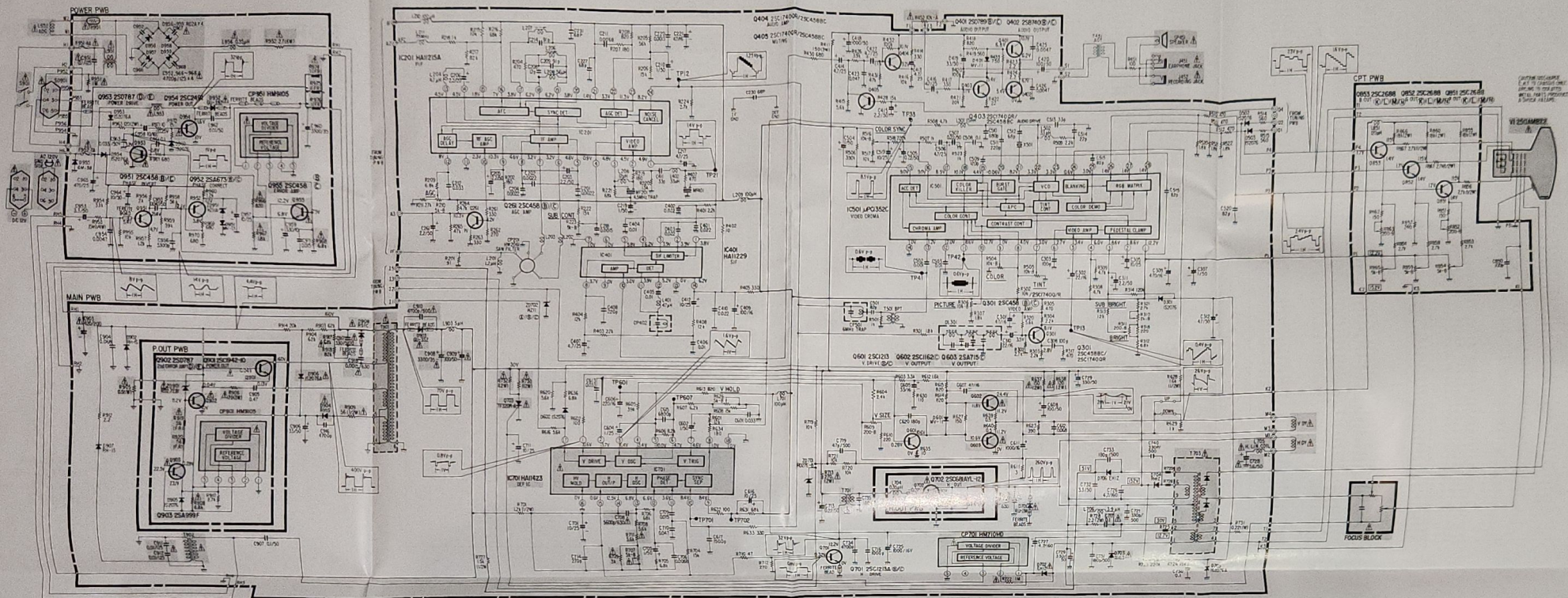
Schematics

Safety Precautions

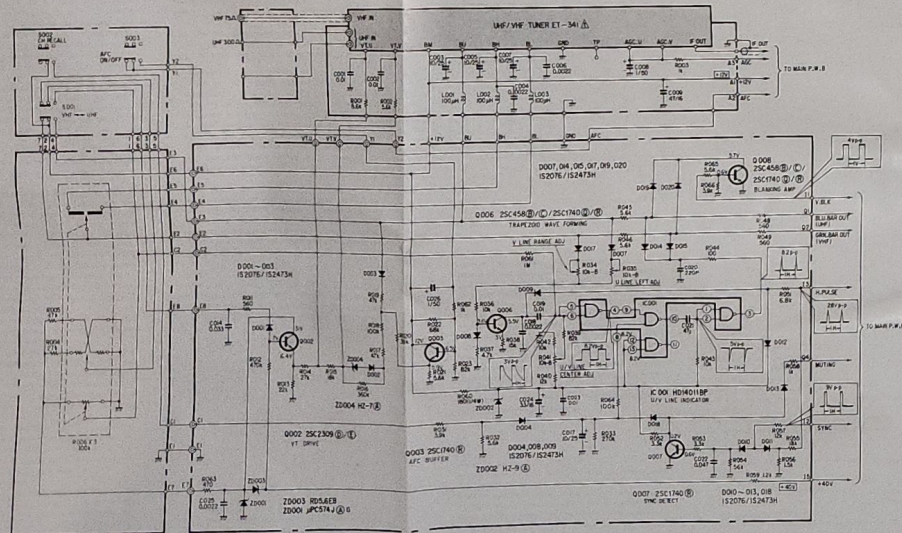
Replacement Parts

WARNING
SHOCK HAZARD
USE ISOLATION TRANSFORMER
DURING SERVICING.

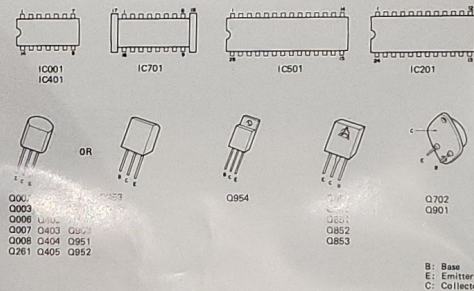
SCHEMATIC DIAGRAM MODEL 685-2064



SELECTOR BLOCK BASIC CIRCUIT DIAGRAM



TERMINAL VIEWS OF SEMICONDUCTORS



B: Base
E: Emitter
C: Collector

WAVEFORMS

1. All waveforms are taken using a wideband oscilloscope with a low capacity probe.
2. The TINT, COLOR and PICTURE Controls are set to mid-positions, and BRIGHTNESS Control is set to maximum.
3. Waveforms in rectangle are taken with an air signal.
4. The color amp. control of the color bar generator is set to obtain 0.1 V_{p-p} chrominance signal on oscilloscope when observing waveform of terminal TP12.

NOTES:

1. Resistance values are in OHM: K = 1,000, M = 1,000,000.
2. Capacitance values 1 and above are in pF, and less than 1 are in mfd., unless otherwise noted.
3. Inductance values 1 and above are in μ H, and less than 1 are in H.
4. Voltage are measured to chassis ground with a VTVM in normal color reception at rated line voltage (AC 120V), and should hold within $\pm 20\%$ except H.V.
5. This is a fundamental schematic diagram and may slightly differ from the actual circuit.

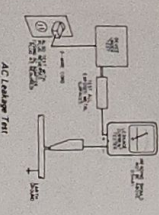
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" IN THIS SHEET.

CAUTION: The shaded areas in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the product safety notice in this sheet. Do not degrade the safety of the receiver through improper servicing.

WARNING: BEFORE EXAMINING THIS CHART, READ THE "X-RADIATION PRECAUTIONS" SAFETY PRECAUTIONS AND PROTECT SAFETY NOTICE IN THIS SET.

SAFETY PRECAUTIONS

Before examining this chart, read the "X-RADIATION PRECAUTIONS" SAFETY PRECAUTIONS and PROTECT SAFETY NOTICE in this set.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OF THE TOLERANCES SPECIFIED IN THE TOLERANCE TABLE SHALL BE RECONSIDERED.

High Voltage

Serviceperson warning

Leakage Current Hot Check



SHOCK HAZARD DURING SERVICING

COLOR TELEVISION DATA

MODEL 4902-5889

Service Adjustments
Safety Precautions
Replacement Parts

JCPenney

FOR SERVICE PERSONNEL ONLY

Check of High Voltage Hold Down

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Static Convergence Adjustment

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Focus Adjustment

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Color Adjustment

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6. Color Adjustment</